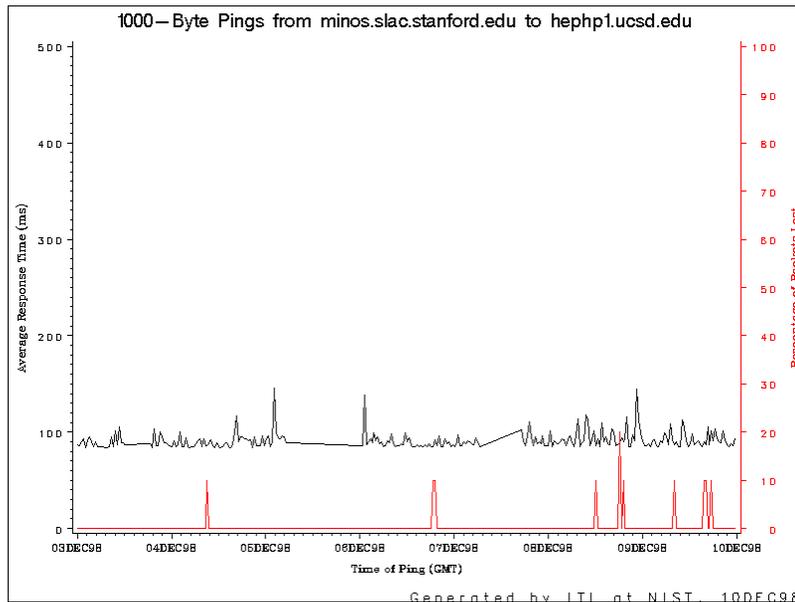


# Internet Performance Measurement



## Goal

To advance the state of the art in Internet performance measurement through improved statistical analysis of the data that is collected and through improved data collection techniques.

## Technical Objectives

- Improve measurement methodologies to support the industry demand for enforceable Internet Service Level Agreements (SLAs)
- Develop and deploy an Internet Performance Measurement toolkit.
- Develop passive measurement techniques.
- Improve data analysis.

## Impact

- Reliable performance measurements permit consumers to evaluate the quality of the service they receive thus providing impetus for quality improvements.
- Passive measurement will reduce the perturbation caused by measuring the network performance.

## Collaborators

Cross Industry Working Team (XIWT)  
High Performance Systems Division  
Statistics Division  
Stanford Linear Accelerator (SLAC)  
Advanced Network Systems (ANS)

## Products and Results

- Established a test node and the data archive and analysis site for the XIWT/IPWT  
FY98
- Analyzed the “pinger” data and reported to the XIWT  
FY98
- Work performed to enhance the accuracy of the timestamp mechanism in the ANS Surveyor Probe device  
FY98
- GITS Internet Performance Measurement Toolkit developed  
FY99
- GITS measurement systems deployed in the field  
FY00